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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/682,601

10/09/2003

Ian James Clubb

1160215/0509834

3269

7590 08/08/2008
FROST BROWN TODD LLC
201 E. Fifth Street
Cincinnati, OH 45202-4182

EXAMINER

WHIPPLE, BRIAN P

ART UNIT

PAPER NUMBER

2152

MAIL DATE

DELIVERY MODE

08/08/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/682,601	Applicant(s) CLUBB ET AL.	
	Examiner Brian P. Whipple	Art Unit 2152	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/7/08</u> . | 6) ☐ Other: _____ |

DETAILED ACTION

1. Claims 1-22 are pending in this application and presented for examination.
2. In view of the appeal brief filed on 6/16/08, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Jeffrey Pwu/

Supervisory Patent Examiner, Art Unit 2146.

Claim Objections

3. As to claims 1-13, 16, and 22, the Examiner finds the varied use of letters, dashes, and bullets to indicate different steps/structures confusing. The repeated use of a. for example leads to a number of steps being labeled a. if the dependent claims were to be written out in full with the limitations of the parent claim(s). Also, claim 16 relies on a), whereas every other claim uses a. It is unclear if any differentiation in meaning is intended by this change. The Examiner believes simply relying upon indentations alone, as opposed to the various letters, dashes, and bullets would render the claims easier to understand and read.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. As to claim 4, the phrases “said step of interacting” (line 6) and “said datastore” (line 9) lack antecedent basis.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 1-4, 6, 11 and 16-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Ullmann, U.S. Patent No. 6,883,024 B2.

9. As to claim 1, Ullmann discloses a distributed computer system comprising:

at least one physical node (Col. 7, ln. 35-42);

at least one logical node (Col. 7, ln. 51-57);

wherein

each of one or more of said at least one logical node is mapped back to one of said at least one physical node (Col. 8, ln. 13-20);

said system comprises computer executable instructions for performing a method comprising the steps of:

receiving a request for work (Col. 8, ln. 7-10);

examining said request for work (Col. 8, ln. 7-10);

determining which of said at least one logical node corresponds with said request (corresponding logical node) (Col. 8, ln. 10-15);

determining which of said at least one physical node said corresponding logical node is associated with (corresponding physical node) (Col. 8, ln. 15-20);

routing said request for work to said corresponding physical node (Col. 8, ln. 41-48);

sending said request for work to said corresponding logical node (Col. 8, ln. 41-48);

processing said request for work on said corresponding logical node (Col. 8, ln. 41-48).

Replication of an application is requested, and in response, the physical and logical scopes for the network are defined in order to identify the computers to which the application may be replicated. Because the logical and physical scopes overlap, the request to replicate is received and processed by both the physical and logical nodes.

10. As to claim 2, Ullmann discloses a system as claimed in claim 1 wherein:

at least one of said at least one corresponding physical node comprises a corresponding physical datastore (Col. 8, ln. 41-51; copies of the program are installed on the computers in the physical scope; installation of a program on a computer requires a datastore on the receiving computer);

at least one of said at least one corresponding logical node comprises a corresponding logical datastore (Col. 7, ln. 59-64).

11. As to claim 3, Ullmann discloses a system as claimed in claim 2 wherein:

at least one corresponding physical node comprises a corresponding physical server (FIG. 1; Col. 8, ln. 41-48; the network comprises a plurality of servers and the servers can replicate applications to other computers in the network);

at least one corresponding logical node comprises a corresponding logical server (FIG. 2; Col. 2, ln. 65 – Col. 3, ln. 5; “applying the logical scope... for each application to be run in the network”).

12. As to claim 4, Ullman discloses a system as claimed in claim 3 wherein:

said corresponding logical datastore is associated with a first predetermined set of data values (FIG. 2, item 214; Col. 7, ln. 59-64);

said corresponding logical server is associated with a second predetermined set of data values (FIG. 2, item 224; Col. 2, ln. 65 – Col. 3, ln. 5);

said step of interacting comprises:

opening said corresponding logical datastore (Col. 8, ln. 7-20);

obtaining a set of additional information about said request from said datastore (Col. 8, ln. 55-58);

determining which of said at least one corresponding physical server and corresponding logical server is associated with a combination of said request and said set of additional information (Col. 8, ln. 41-58);

routing said request to said corresponding logical server (Col. 8, ln. 41-48);

allowing said corresponding logical server to access and modify said corresponding logical datastore (Col. 7, ln. 59-64; Col. 8, ln. 1-6);

processing said request on said corresponding logical server (Col. 8, ln. 41-48).

The control server (FIG. 2; Col. 2, ln. 65 – Col. 3, ln. 5) is associated with both a set of logical data values (FIG. 2, item 214) and a set of physical data values (FIG. 2, item 224).

13. As to claim 6, the claim is rejected for reasons similar to claim 3 above (the first two limitations of claim 6 are substantially duplicative of the limitations of claim 3).

Additionally, Ullmann discloses said processing said request for work on said corresponding logical node step comprises routing said request to said corresponding logical server (Col. 8, ln. 41-48).

14. As to claims 11 and 16, the claims are rejected for reasons similar to claim 4 above.

15. As to claims 17-18, the claims are rejected for reasons similar to claims 1-4 above.

Claim Rejections - 35 USC § 103

16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

17. Claims 5, 12-13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ullmann as applied to claims 2 and 6 above, in view of Jain et al. (Jain), U.S. Publication No. 2002/0152310 A1.

18. As to claim 5, Ullmann discloses the invention of parent claim 2, but is silent on said system further comprises computer executable instructions for upgrading said system by performing the steps of:

recognizing at least one additional physical datastore in said system wherein said additional physical datastore is different from said corresponding physical datastore (pre-existing physical datastore);

migrating at least one logical datastore of said at least one corresponding logical datastore from said pre-existing physical datastore to said additional physical datastore;

remapping said logical datastore from said pre-existing physical datastore to said additional physical datastore.

However, Jain discloses said system further comprises computer executable instructions for upgrading said system by performing the steps of:

recognizing at least one additional physical datastore in said system wherein said additional physical datastore is different from said corresponding physical datastore (pre-existing physical datastore) (FIG. 4, item 400; [0035]);

migrating at least one logical datastore of said at least one corresponding logical datastore from said pre-existing physical datastore to said additional physical datastore (FIG. 4, items 420, 422, and 424; [0039] – [0040]);

remapping said logical datastore from said pre-existing physical datastore to said additional physical datastore (FIG. 4, items 420, 422, and 424; [0039] – [0040]).

The logical concept of a master server is remapped from the pre-existing physical datastore (original server) to the newly added server.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ullmann in the afore-mentioned manner as taught by Jain in order to add physical datastores in order to expand available resources and in order to reconfigure the logical concept of a master server when the original master server is no longer functioning properly.

These are applicable improvements to the invention of Ullmann, as Ullmann is directed to a plurality of servers operating to communicate with each other and there is a control server in Ullmann, so being able to reconfigure this logical concept of a control server in the event of a failure would be beneficial.

19. As to claims 12-13 and 15, the claims are rejected for reasons similar to claim 5 above.

20. Claims 7-10 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ullmann as applied to claim 6 above, in view of Aborn, U.S. Publication No. 2003/0065703 A1.

21. As to claim 7, Ullmann discloses the invention of parent claim 6, but is silent on said system further comprises computer executable instructions for performing the steps of:

monitoring a workload allocated to each of said at least one physical server;

if said workload, of any of said at least one physical servers, exceeds a predetermined maximum:

adding at least one additional physical server to said system;

remapping at least one of said logical servers across said at least one physical server including said additional physical server so as to redistribute said workload according to predefined formula.

However, Aborn discloses said system further comprises computer executable instructions for performing the steps of:

monitoring a workload allocated to each of said at least one physical server ([0022]);

if said workload, of any of said at least one physical servers, exceeds a predetermined maximum ([0023], ln. 1-9):

adding at least one additional physical server to said system ([0023], ln. 1-9);

remapping at least one of said logical servers across said at least one physical server including said additional physical server so as to redistribute said workload according to predefined formula (FIG. 1a; [0023], ln. 1-9).

The concept of a server farm is a logical server in that the client requesting content merely sends a request to the server farm as a whole in the invention of Aborn. Thereafter, a management server distributes the request to an individual content server based on load in the system. The addition of a content server to the server farm is therefore a remapping of the logical server to include the additional physical server, in response to an overload in the system of Aborn.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ullmann in the afore-mentioned manner as taught by Aborn in order to add a server to a system when the load is greater than desired on the current number of servers.

This is an applicable improvement to the system of Ullmann, as Ullmann is directed to a plurality of servers providing content (programs) and adding servers to reduce the load on existing servers is an extremely well known way of improving performance for a plurality of servers.

22. As to claim 8, the claim is rejected for reasons similar to claim 7 above.

Additionally, Aborn discloses said system further comprises an application programming interface configured to allow a user to ([0004]) perform the steps listed (see the rejection of claim 7 above). The motivation for doing so is similar to that given in claim 7

above, as the only difference is that a user is performing the steps through an application programming interface, as was known in the art as shown by Aborn.

23. As to claim 9, the claim is rejected for reasons similar to claim 7 above.

24. As to claim 10, the claim is rejected for reasons similar to claim 7 above.

Additionally, Aborn discloses if said workload, of any of said physical servers, individually or in combination, falls below a predetermined minimum, remapping at least one of said logical servers so as to redistribute said workload according to a predefined formula ([0029]), ln. 1-9).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ullmann in the afore-mentioned manner as taught by Aborn in order to redistribute content servers to other tasks when the number of content servers is greater than desired for a limited amount of load.

25. As to claim 22, the claim is rejected for reasons similar to claims 1-4 and 7 above.

26. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ullmann and Jain as applied to claim 13 above, further in view of Aborn.

27. As to claim 14, the claim is rejected for reasons similar to claims 5 and 7 above.

28. Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ullmann as applied to claim 18 above, in view of Hubbard, U.S. Patent No. 6,963,897 B1.

29. As to claim 19, Ullman discloses the invention as in parent claim 18, but is silent on said entity comprises a family.

However, Hubbard discloses said entity comprises a family (Col. 32, ln. 55-58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ullman by including families as a type of entity as taught by Hubbard in order to allow remote families to share data via the Internet (Hubbard, Col. 32, ln. 55-58).

30. As to claim 20, the claim is rejected for reasons similar to claim 19 above.

If one would be motivated to share or distribute data between remote families, one would be motivated to do the same for remote employees.

31. As to claim 21, the claim is rejected for reasons similar to claims 18-20 above.

Conclusion

32. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian P. Whipple whose telephone number is (571)270-1244. The examiner can normally be reached on Mon-Fri (9:30 AM to 6:00 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/682,601
Art Unit: 2146

Page 16

Brian P. Whipple
/B. P. W./
Examiner, Art Unit 2152
8/5/08

/Jeffrey Pwu/
Supervisory Patent Examiner, Art Unit 2146

Notice of References Cited	Application/Control No. 10/682,601		Applicant(s)/Patent Under Reexamination CLUBB ET AL.	
	Examiner Brian P. Whipple		Art Unit 2152	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,883,024 B2	04-2005	Ullmann, Lorin Evan	709/220
*	B	US-2002/0152310 A1	10-2002	Jain et al.	709/226
*	C	US-2003/0065703 A1	04-2003	Aborn, Justin	709/105
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes 	Application/Control No. 10682601	Applicant(s)/Patent Under Reexamination CLUBB ET AL.
	Examiner Whipple, Brian P	Art Unit 2196

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
US Patent from International Search Report (included in IDS) used as primary reference	11/29/06	BPW
EAST search history attached	12/06/06	BPW
Searched 709/223,226 with text	12/06/06	BPW
Searched 709 with text	12/06/06	BPW
Updated search (EAST search history attached)	4/8/07	BPW
Updated search (EAST search history attached)	8/5/08	BPW
Searched 709 with text	8/5/08	BPW
Searched 709/201-203 with text	8/5/08	BPW

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

<i>Index of Claims</i> 	Application/Control No. 10682601	Applicant(s)/Patent Under Reexamination CLUBB ET AL.
	Examiner Whipple, Brian P	Art Unit 2196

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

CLAIM		DATE									
Final	Original	11/29/2006	04/08/2007	09/06/2007	08/05/2008						
	1	✓	✓	✓	✓						
	2	✓	✓	✓	✓						
	3	✓	✓	✓	✓						
	4	✓	✓	✓	✓						
	5	✓	✓	✓	✓						
	6	✓	✓	✓	✓						
	7	✓	✓	✓	✓						
	8	✓	✓	✓	✓						
	9	✓	✓	✓	✓						
	10	✓	✓	✓	✓						
	11	✓	✓	✓	✓						
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	13	✓	✓	✓	✓						
	14	✓	✓	✓	✓						
	15	✓	✓	✓	✓						
	16	✓	✓	✓	✓						
	17	✓	✓	✓	✓						
	18	✓	✓	✓	✓						
	19	✓	✓	✓	✓						
	20	✓	✓	✓	✓						
	21	✓	✓	✓	✓						
	22	✓	✓	✓	✓						



26874

PATENT TRADEMARK OFFICE

Substitute for Form PTO 1449

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(use as many sheets as necessary)***Complete if Known**

Application No.	10/682,601
Filing Date	10/09/2003
First Named Inventor	Ian Clubb
Art Unit	2152
Examiner Name	Whipple, Brian P.
Attorney Docket No.	1160215/0509834

Sheet	1	of	1
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U.S. PATENT DOCUMENTS

Examiner initials	Cite No.	DOCUMENT NUMBER Number-Kind code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- None			

FOREIGN PATENT DOCUMENTS

Examiner initials	Cite No.	Foreign Patent Document Country Code ³ -Number ⁴ -Kind code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		None				

OTHER PRIOR ART – NON-PATENT LITERATURE DOCUMENTS

Examiner initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
		None	

CONVERGYS CROSS REFERENCES

Examiner initials	Cite No.	
/BW/	1	Office Action dated 12/31/2007 for U.S. Application Serial No. 10/666,631

EXAMINER SIGNATURE /Brian Whipple/DATE CONSIDERED 08/05/2008

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	US-20040133622-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 09:31
S2	14	(us-6272523-\$ us-6374297-\$ us-5751961-\$ us-5938722-\$ us-5539883-\$ us-5860137-\$ us-6058423-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 09:57
S3	603	(entity OR entities OR client) near3 family	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:50
S4	3708	(entity OR entities OR client OR user) near3 family	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:54
S5	7322	709/223,226.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:51
S6	46	S4 S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:53
S7	66128	(second with employees or employee or coworkers)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:54
S8	2203	(second with (employees or employee or coworkers))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:54

S9	0	S8 S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:54
S10	6170	(entity OR entities OR client OR user) near3 employees	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:54
S11	171	S10 S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:54
S12	165	(entity OR entities OR client OR user) near3 employees with second	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:54
S13	7	S12 S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 13:00
S14	32	S12 "709".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 12:56
S15	0	"us-7013338-".\$.did	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 13:00
S16	0	"us-7013338-".\$.did	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 13:00
S17	2	us-7013338-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/06 13:00
S18	1	(US-20040172464-\$.did.	US-PGPUB	AND	ON	2006/12/06 13:12

S19	1	S18 (second with employees)	US-PGPUB	AND	ON	2006/12/06 13:12
S20	2932	709/204-205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 14:55
S21	1749	709/250.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:02
S22	7133	(logical with physical).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:02
S23	5	S20 S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:02
S24	14	S21 S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:02
S25	0	S23 S24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:02
S26	19	S23 OR S24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:03
S27	23270912	@ad< "20021010"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:17
S28	17	S26 S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:18

S29	10	S28 distribut\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:19
S30	1	(distribut\$3 with (work or process or job)) (S20 OR S21) S27 S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:25
S31	3351	(workload with (distribut\$3 OR balance))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:26
S32	24	S31 S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:26
S33	16	S32 S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:26
S34	5	S33 logical physical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:27
S35	262	S31 with client	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:27
S36	9	S35 S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/06 15:27
S37	48327	(distribut\$3 near3 system).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:30

S38	2932	709/204-205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:30
S39	23270912	@ad< "20021010"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:31
S40	64	S37 S38 S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:31
S41	20	S40 logical physical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:35
S42	1	(shar\$3 near3 (workload OR (work adj load) OR load)).ti. S38 S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:41
S43	2	S38 S39 (mapped adj back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:42
S44	2035	S38 S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:42
S45	8535	((logical physical).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:42
S46	7	S44 S45	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:43

S47	87	collaborative.ti. S44	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:46
S48	19	S37 S39 709/250.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:56
S49	18	S47 logical physical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:57
S50	60720	((load OR workload OR (work adj load)) (plurality OR group)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:57
S51	1749	709/250.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 14:58
S52	22	S50 (S38 OR S51) S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/07 15:00
S53	2	(US-20030177232-\$).did. or (US-6370565-\$).did.	US-PGPUB; USPAT	AND	ON	2007/04/07 17:16
S54	1	S53 logical	US-PGPUB; USPAT	AND	ON	2007/04/07 16:15
S55	2	S53 dynamic\$4	US-PGPUB; USPAT	AND	ON	2007/04/07 17:17
S56	0	(new adj server) S53	US-PGPUB; USPAT	AND	ON	2007/04/07 17:17
S57	0	(add adj server) S53	US-PGPUB; USPAT	AND	ON	2007/04/07 17:18
S58	1	us-6272523-b1.did.	US-PGPUB; USPAT	AND	ON	2007/04/07 18:24

S59	15	(US-20020194502-\$ or US-20040172464-\$ or US-20030177232-\$).did. or (US-6880002-\$ or US-6963897-\$ or US-6343313-\$ or US-6854016-\$ or US-6370565-\$ or US-6678715-\$ or US-5649105-\$ or US-6185601-\$ or US-5734829-\$ or US-6560630-\$ or US-6763372-\$ or US-6272523-\$).did.	US-PGPUB; USPAT	AND	ON	2007/04/07 18:24
S60	2	family S59	US-PGPUB; USPAT	AND	ON	2007/04/07 18:24
S61	12691	709/201-203.ccls.	US-PGPUB; USPAT; EPO	AND	ON	2008/08/01 12:09
S62	6386023	@AD<"20021010" OR @RLAD<"20021010"	US-PGPUB; USPAT; EPO	AND	ON	2008/08/01 15:45
S63	12691	709/201-203.ccls.	US-PGPUB; USPAT; EPO	AND	ON	2008/08/01 15:45
S64	9699	S62 S63	US-PGPUB; USPAT; EPO	AND	ON	2008/08/01 15:45
S65	3895	((logical AND physical).ab.	US-PGPUB; USPAT; EPO	AND	ON	2008/08/01 16:08
S66	55	S64 S65	US-PGPUB; USPAT; EPO	AND	ON	2008/08/01 16:08
S67	15	S66 (distribut\$3 OR cooperat \$3 or co-operat\$3 or group).ti.	US-PGPUB; USPAT; EPO	AND	ON	2008/08/01 16:15
S68	2	"US 20040133622"	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2008/08/01 17:57
S69	6386023	@AD<"20021010" OR @RLAD<"20021010"	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:27
S70	12691	709/201-203.ccls.	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:27
S71	9699	S69 S70	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:27
S72	3895	((logical AND physical).ab.	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:27
S73	55	S71 S72	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:27
S74	19	S73 ((add or added or adding) with server)	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:28
S75	0	((add or added or adding) with server near3 farm with virtual with physical)	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:32
S76	197	((add or added or adding) with server near3 farm)	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:32
S77	24	S76 S71	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:33
S78	14	S77 virtual	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:33

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S79	10	S78 physical	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:33
S80	20	(server farm).ti. "709".clas. S69	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:34
S81	8	S80 ((add or adds or added or adding) with server)	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 14:34
S82	223	((add or adds or added or adding) with server with maximum)	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 15:03
S83	66137	"709".clas.	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 15:03
S84	43636	S69 S83	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 15:03
S85	54	S82 S84	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 15:03
S86	18	S85 (load with balanc\$3)	US-PGPUB; USPAT; EPO	AND	ON	2008/08/03 15:03

8/ 5/ 2008 2:38:35 PM

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Workflow Management.wsp